

Demonstration of a Light Response Curve for a flatworm population growing within the top sand layer within a bay of One Tree Island (Great Barrier Reef).

The flatworms are invertebrate animals that contain endosymbiotic algae with high photosynthetic activity.

Although the flatworms are moving within the field of view of the IMAGING-PAM (Standard head IMAG-L), it is possible to measure their light response curve by defining a large Area of Interest (AOI), so that the overall response is assessed.

The Light Curve is characteristic for exceptionally high photosynthetic capacity and light tolerance, which reflects adaptation to the high irradiance level on the reef.

Attractive sequences of the images of various fluorescence parameters can be created via the Go-function. The Go Speed can be modified under Settings.